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A/RE

ocket No.: 319700031REA

Date: November 14, 2000

Express Mail Label No.: EL 486 598 160 US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Assistant Commissioner for Patents
Washington, D.C. 20231



REISSUE APPLICATION TRANSMITTAL

Transmitted herewith is the application for reissue of U.S.

☒ Utility Patent ☐ Plant Patent ☐ Design Patent

No. 5,842,154, issued on November 24, 1998.

Inventor(s): Sean Harnett

Title: **FUZZY LOGIC TUNING OF RF MATCHING NETWORK**

Enclosed are the following:

1. ***Specification, Claim(s), And Drawing(s) (37 C.F.R. § 1.173)***

(a) Abstract (page 1), Specification and Claims in double-column format (cols. 1-10) including new Claims 9-37, and Certificate of Correction.

(b) In accordance with 37 C.F.R. Section 1.173(a)(2), please find attached a clean copy of the printed drawings of the patent (5 sheets, Figs. 1-7).

2. ***Declaration And Power Of Attorney***

Three (3) pages of signed Declaration and Power of Attorney.

3. ***Preliminary Amendment***

☐ Attached

4. ***Letters Patent***

☐ Original letters patent is attached.

☐ Declaration that original letters patent lost or inaccessible is attached.

☒ Offer to Surrender by the inventor along with Assent by Assignee for Filing of Reissue Application.

5. **Petition To Proceed Without Assignee's Assent**

- ☐ Attached hereto is a "Petition To Proceed With Reissue Application Without Assignee's Assent".
- ☐ The fee payment is authorized in the attached:
- ☐ "Reissue Application Transmittal" Form.
- ☐ "Completion Of Filing Requirements -- Reissue Application" form.

6. **Information Disclosure Statement**

- ☒ Attached
- ☒ Copies of the IDS citation(s) is/are attached.

7. **Priority - 35 U.S.C. § 119**

- ☐ Priority of application Serial No. _____, Filed on _____, in _____ is claimed under 35 U.S.C. § 119.
- ☐ The certified copy has been filed in prior application Serial No. _____, filed on _____.

8. **Basic Filing Fee Calculation (37 C.F.R. § 1.16(h), (l) and (j))**

FILING FEE CALCULATION	Number Claims in Reissue	Number Claims in Patent	Number Extra	Rate	Basic Fee \$710.00
Total Claims	37	- 8 (20)	= 17	X \$18.00	= \$306.00
Independent Claims	7	- 3	= 4	X \$80.00	= \$320.00
Multiple Dependent Claim(s) Used				\$270.00	=
FILING FEE - NON-SMALL ENTITY					
FILING FEE - SMALL ENTITY: Reduction by 1/2					
<input type="checkbox"/> Verified Statement under 37 C.F.R. §1.27 is enclosed.					
<input type="checkbox"/> Verified Statement filed in prior application.					
Assignment Recordal Fee (\$40.00)					
37 C.F.R. §1.17(k) Fee (non-English application)					
TOTAL					\$1,336.00

9. **Small Entity Status**

- ☐ A statement that is filing is by a small entity is
- ☐ Attached

10. **Additional Fee Payments**

- ☐ Payment is being made for "Petition To Proceed With Reissue Application Without Assignee" (37 C.F.R. § 1.17(h)) \$ _____

11. **Total Fees Due**

Filing Fee \$ 710.00

Petition Fee \$ 0.00

Extra Independent Claim..... \$320.00

Extra Claims..... \$306.00

Total Fees Due \$1,336.00

12. **Method Of Payment of Fees**

- ☒ A check is enclosed to cover the calculated fees. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 08-0750. A duplicate copy of this document is enclosed.
- ☐ The calculated fees will be paid within the time allotted for completion of the filing requirements.
- ☐ The calculated fees are to be charged to Deposit Account No. 08-0750. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to said Deposit Account. A duplicate copy of this document is enclosed.

13. **Additional Enclosures**

- ☒ An Assignment of the invention
- ☐ is enclosed with a cover sheet pursuant to 37 C.F.R. § 3.11, 3.28 and 3.31.
- ☒ is of record in a prior application. The assignment is to ENI Technology, Inc., and is recorded at Reel 008815, Frame 0877.
- ☒ An Establishment of Assignee's Right To Prosecute Application Under 37 C.F.R. § 3.73(b), and Power Of Attorney is enclosed.

Date: November 14, 2000

Express Mail Label No.: EL 486 598 160 US

☒ [X] An Express Mailing Certificate is enclosed.

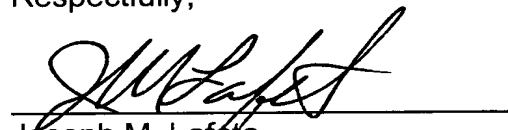
☒ [X] Other: Postcard.

Attention is directed to the fact that the correspondence address for this application is:

Harness, Dickey & Pierce, P.L.C.
P.O. Box 828
Bloomfield Hills, Michigan 48303
(248) 641-1600.

Respectfully,

Date Nov 14, 2000
Harness, Dickey & Pierce, P.L.C.
P.O. Box 828
Bloomfield Hills, Michigan 48303
(248) 641-1600



Joseph M. Lafeta
Reg. No. 37,166

HARNES, DICKEY & PIERCE, P.L.C.
ATTORNEYS AND COUNSELORS
P.O. BOX 828
BLOOMFIELD HILLS, MICHIGAN 48303
U.S.A.

TELEPHONE
(248) 641-1600
TELEFACSIMILE
(248) 641-0270



Date: November 14, 2000

Hon. Commissioner of Patents
and Trademarks
Washington, D.C. 20231

Sir:

EXPRESS MAILING CERTIFICATE

Applicant: Sean Harnett

Serial No. (if any): To Be Assigned

For: FUZZY LOGIC TUNING OF RF MATCHING NETWORK

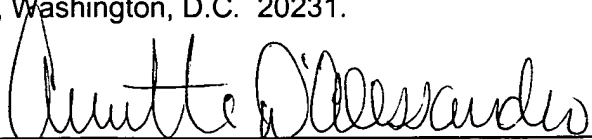
Docket: 3197-000031/REA

Attorney: MPB/JML

"Express Mail" Mailing Label Number..... EL 486 598 160 US

Date of Deposit November 14, 2000

I hereby certify and verify that the accompanying **Express Mailing Certificate**; Check in the amount of \$1,336 (\$710-reissue filing fee, \$306-claims in excess of 20 (17@\$18), and \$320-additional independent claims (4@\$80)); Reissue Application Transmittal (in duplicate) 15-page application including Abstract, Certificate of Correction, and new claims 9-37; Five (5) Sheets of Drawings (Figs. 1-7); executed Reissue Application Declaration and Power of Attorney; executed Offer To Surrender; executed Consent By Assignee For Filing of Reissue Application; executed Establishment of Assignee's Right to Prosecute Application and Power of Attorney; Information Disclosure Statement; Form PTO-1449; nine (9) U.S. references and two (2) miscellaneous documents and return postcard are being deposited with the United States Postal Service "Express Mail Post Office To Addressee" service under 37 C.F.R. 1.10 on the date indicated above and are addressed to the Commissioner of Patents and Trademarks, Washington, D.C. 20231.


Annette D'Alessandro

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patentee: ENI Technology, Inc.)
)
Patent No.: 5,842,154)
)
Issued: November 24, 1998)
)
Serial No.: To Be Assigned)
(reissue))
)
Filed: To Be Assigned)
(reissue))
)
Inventor(s): Sean Harnett)
)
Title: FUZZY LOGIC TUNING OF RF)
MATCHING NETWORK)

**CONSENT BY
ASSIGNEE FOR
FILING OF REISSUE
APPLICATION**

**EXPRESS MAIL NO.
EL 486 598 160 US**

Hon. Commissioner of Patents
And Trademarks
Washington, D.C. 20231

Sir:

This is part of the application for a reissue patent filed herewith based on the original patent identified as follows:

1. The undersigned is an assignee owning
[x] an undivided interest to the above original patent.
[] a _____% (per cent) interest in the above original patent.
2. The undersigned consents to the accompanying application for reissue.
3. Attached is a "Establishment Of Assignee's Right To Prosecute Application Under 37 C.F.R. § 3.73(b), And Power Of Attorney"

ENI Technology, Inc.

Date: 11-9-00

Robert J. Celio
Robert J. Celio
Senior Vice President, Finance & Administration

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patentee: ENI Technology, Inc.)
 Patent No.: 5,842,154)
 Issued: November 24, 1998)
 Serial No.: To Be Assigned)
 (reissue))
 Filed: To Be Assigned)
 (reissue))
 Inventor(s): Sean Harnett)
 Title: FUZZY LOGIC TUNING OF RF)
MATCHING NETWORK)

**OFFER TO
SURRENDER**

**EXPRESS MAIL NO.
EL 486 598 160 US**

Hon. Commissioner of Patents and Trademarks
Washington, D.C. 20231

Sir:

1. The undersigned applicant of the accompanying reissue application for the reissue of letters patent for the improvement in FUZZY LOGIC TUNING OF RF MATCHING NETWORK, Patent No. 5,842,154 granted to him/her on November 24, 1998, of which

☐ he/she is now sole owner,

☒ ENI Technology, Inc. is now sole owner by assignment, and on whose behalf and with whose assent the accompanying application is made,

☒ The "Assent By The Assignee" to this reissue application is attached.

Date: 11/10/00

Sean Harnett
Sean Harnett

ASSENT OF ASSIGNEE TO REISSUE

The undersigned, assignee of the entire interest in the above-mentioned letters patent, hereby assents to the accompanying application.

STATEMENT OF ASSIGNEE

- ☒ Attached is a "Statement Under 37 C.F.R. 3.73(b)," establishing the right of the assignee to take action in this reissue.

ENI Technology, Inc.

Date: 11-9-00

Robert J. Lelio
Robert J. Lelio
Senior Vice President, Finance & Administration

0014886-1400

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Patentee: ENI Technology, Inc.)
)
Patent No.: 5,842,154)
)
Issued: November 24, 1998)
)
Serial No.: To Be Assigned)
(reissue))
)
Filed: To Be Assigned)
(reissue))
)
Inventor(s): Sean Harnett)
)
Title: FUZZY LOGIC TUNING OF RF)
MATCHING NETWORK)

**ESTABLISHMENT OF
ASSIGNEE'S RIGHT
TO PROSECUTE
APPLICATION UNDER
37 C.F.R. § 3.73(b),
AND POWER OF
ATTORNEY**

**EXPRESS MAIL NO.
EL 486 598 160 US**

Hon. Commissioner Of Patents & Trademarks
Washington, D. C. 20231

Sir:

Under 37 C.F.R. § 3.73(b), the undersigned hereby establishes the below-named

Assignee's ownership in the above-identified Application:

Assignee: ENI Technology, Inc.
100 Highpower Road
Rochester, New York 14623-3498

The documentary evidence of a chain of title from the original owner to the Assignee is provided in the Assignment Document(s):

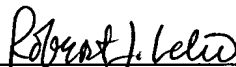
_____ filed herewith.
X previously filed,
Reel No. 8815, Frame No. 0877.

I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the

Patent No.: 5,842,154 issued: November 24, 1998
Docket No.: 31970003-REA

United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Assignee furthermore hereby appoints Michael P. Brennan, Reg. No. 30,612, Joseph M. Lafata, Reg. No. 37,166, as attorney of record, with full power of substitution and revocation, to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith. I request the Patent and Trademark Office to direct all correspondence and telephone calls relative to this application to Michael P. Brennan, Harness, Dickey & Pierce, P.L.C. P.O. Box 828, Bloomfield Hills, Michigan 48098 (248) 641-1600. The undersigned (whose title is supplied below) is empowered to sign this certificate on behalf of the assignee.



Name: Robert J. Lelio
Title: Senior Vice President, Finance & Administration
Assignee: ENI Technology, Inc.

Date: 11-9-00

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : 5,842,154
DATED : November 24, 1998
INVENTOR(S) : Sean Harnett

jes15 U.S. PTO
09/712596
11/14/00

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In Col. 3, line 11:

"AZ" should read --ΔZ--.

In Col. 5, lines 7-8:

"The matching unit 22, with a phase/magnitude sensor impedance matching unit 22," should read --The matching network 16 comprises a controllable impedance matching unit 22,--.

Signed and Sealed this
Second Day of March, 1999



Attest:

Q. TODD DICKINSON

Attesting Officer

Acting Commissioner of Patents and Trademarks